

Abstract

The present invention relates to a method for the secure
5 access of mobile terminal to the Wireless Local Area Network
(WLAN) and for secure data communication via wireless link,
which, combining the common key encryption technology and the
symmetry encryption technology, has resolved the failure in
WLAN to provide effective control on secure MT access, and
10 overcome the limitation on the confidentiality of the data
communication via wireless link. When MT logs on AP, both
parts must perform the certificate authentication through AS.
Only the MT holding the legitimate certificate can access to AP
holding the legitimate certificate; MT and AP perform the
15 negotiation of common key for conversation, complete the
dynamic revision of the secret key in each authentication, each
secret key and in the process of conversation to achieve
confidential data communication. Anyway, the method has not
only achieved control on the access of MT, but also ensured the
20 security of MT access and high confidentiality of communication.

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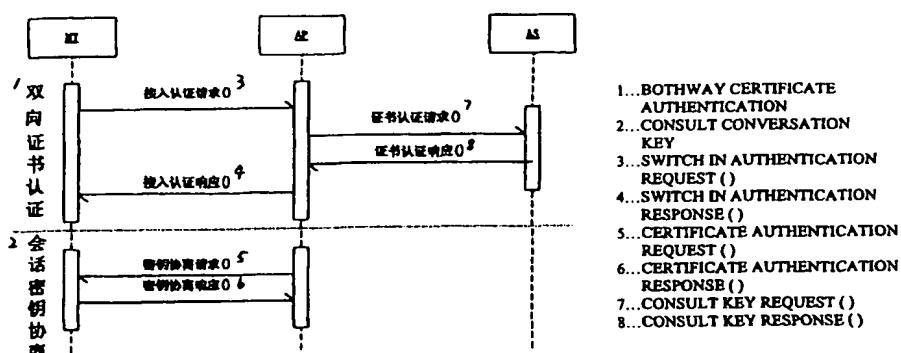
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(54) Title: A METHOD FOR THE ACCESS OF THE MOBILE TERMINAL TO THE WLAN AND FOR THE DATA COMMUNICATION VIA THE WIRELESS LINK SECURELY

(54) 发明名称: 无线局域网移动终端的安全接入与无线链路数据保密通信方法



(57) Abstract: A method for the access of the mobile terminal to the WLAN and for the data communication via the wireless link securely. Through the combination of the public key technology and the symmetrical key technology, the method can make secure access control for the mobile terminal to the WLAN and overcome the secret localization of the data communication via the wireless link. When the mobile terminal wants to enter the access point, both sides should authenticate the certificate each other. Only when both sides have the legitimate certificate, the mobile terminal can enter the access point. In order to realize the secure data communication, the mobile terminal and the access point consult the secret key for communication together, give a key for each authentication and amend the key in the conversation process. Anyhow, this method not only realizes the access control of the mobile terminal, but also ensures the security of the access control for the mobile terminal and the high privacy of the communication.

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